

# **EXHIBIT AAA**

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Derek McGowan

274 posts



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Derek McGowan

@derekmcgowan

@containerd maintainer, @docker, and father

El Dorado Hills, CA Joined November 2008

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Derek McGowan reposted

Scott Johnston @scottjohnston · May 18, 2022

So great to see @derekmcgowan @jpetazzo again #KubeConEU



1

33

61

Derek McGowan reposted

containerd @containerd · Nov 17, 2021

containerd 1.4.12 and 1.5.8 have been released with a mitigation against CVE-2021-41190!

New Release v1.5.8

containerd 1.5.8

Welcome to the v1.5.8 release of containerd!

The eighth patch release for containerd 1.5 contains a mitigation for CVE-2021-41190.

1 Contributor

Release containerd 1.5.8 - containerd/containerd

From github.com

1

33

61

Derek McGowan reposted

Maksym @mak\_pav · Nov 3, 2021

In case if you missed our recent #KubeCon talk "containerd Introduction and Deep Dive" with @estesp @derekmcgowan @mikebrow it is now available online

containerd Introduction and Deep Dive - Phil Estes, @estesp, @derekmcgowan, @mikebrow

youtube.com

containerd Introduction and Deep Dive - Phil Estes, @estesp, @derekmcgowan, @mikebrow

Don't miss out! Join us at our next event: KubeCon + CloudNativeCon Europe 2022 in Valencia, Spain ...

11

21

Derek McGowan @derekmcgowan · Oct 14, 2021

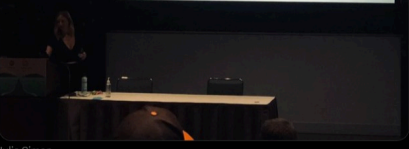
The most important topic right now at #kubcon covered by @JuliaSimon14

A Vulnerable Tale About Burnout

Julia Simon (she/her)

KubeCon CloudNativeCon

North America 2021



Julia Simon

1

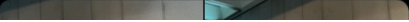
3

29

Derek McGowan reposted

Phil Estes @estesp · Oct 13, 2021

More information than we could really fit in 30 mins on 2 years of @containerd updates and what's new in CRI and our upcoming v1.6 release!



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Shaq

28.6K posts

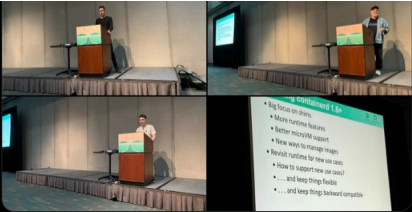
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Klay

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chrome-extension://mcbpblocgmgnfpjppndjkmjgaogfceg/fsCaptured.html 1/10



Maksym and 2 others


1 6 29

### Who to follow




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@OCI\_ORG  
Open Container Initiative (OCI)

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**Stefan Scherer**  
@stefoscherer  
Sr. Software Engineer @docker, Dad, Husband, Microsoft MVP, Docker Pirate at Hypriot, retired #DockerCaptain. Tweets my own (he/him)

Follow




**Stephen Day**  
@stevvooe  
Human being and software engineer.

Follow

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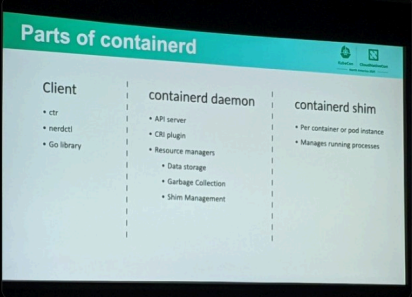
Derek McGowan reposted



**tiffany.jernigan** @tiffanyfajj · Oct 13, 2021

Parts of #containerd  
@derekmcgowan  
@estesep @mak\_pav

#docker #kubernetes #kubebcon #cloudnativecon




**Parts of containerd**

Client	containerd daemon	containerd shim
<ul style="list-style-type: none"><li>ctr</li><li>nerdctl</li><li>Go library</li></ul>	<ul style="list-style-type: none"><li>API server</li><li>OCI plugins</li><li>Resource managers<ul style="list-style-type: none"><li>Data storage</li><li>Garbage Collection</li><li>Shim Management</li></ul></li></ul>	<ul style="list-style-type: none"><li>Per container or pod instance</li><li>Manages running processes</li></ul>

3 11

Derek McGowan reposted



**containerd** @containerd · Oct 13, 2021


containerd 1.6 beta period has begun!

New Release v1.6.0-beta.0

## containerd 1.6.0-beta.0

Welcome to the v1.6.0-beta.0 release of containerd!

The seventh major release of containerd includes many improvements and added...




1 Contributor

Release containerd 1.6.0-beta.0 - containerd/containerd

From github.com


15 19

Derek McGowan reposted



**Phil Estes** @estesep · Oct 13, 2021


Who's ready for a @containerd project update from maintainers at #KubeCon/#CloudNativeCon today? 4:30p in Concourse Hall 150ABC! sched.co/IV6Y



Derek McGowan and 2 others


1 4 18

Derek McGowan reposted



**mikebrow** @mikebrow · Oct 12, 2021

The pizza has arrived getting ready for #kubebcon2021 with @estesep and @derekmcgowan



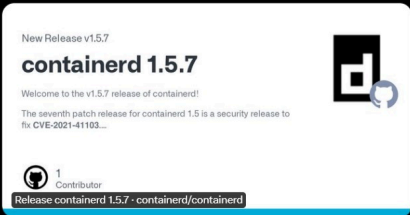
chrome-extension://mcbpblocmgmgnfjppndjkmjgaogfceg/fsCaptured.html

2/10



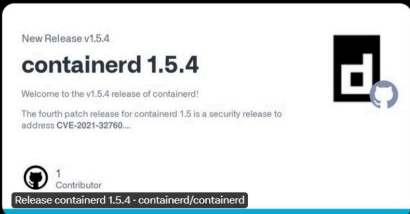
2 1 20

Derek McGowan reposted  
**containerd** @containerd · Oct 4, 2021  
containerd 1.4.11 and 1.5.7 have been released to fix CVE-2021-41103



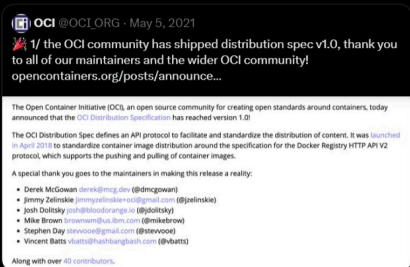
From github.com  
28 66

Derek McGowan reposted  
**containerd** @containerd · Jul 19, 2021  
containerd 1.4.8 and 1.5.4 have been released to address CVE-2021-32760



From github.com  
33 82

Derek McGowan reposted  
**Vincent Batts** @vbatts · May 5, 2021  
This is the API for the container registries we all rely upon. Every. Day. Open governance goes a long way. And working together as humans (regardless of jobs) goes even further.

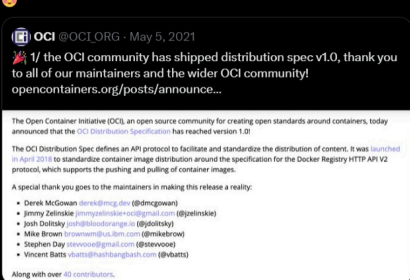


4 39

Derek McGowan reposted  
**Stephen Day** @stevvoee · May 5, 2021  
Replying to @derekmcgowan  
@derekmcgowan brought this into docker and really made these crazy ideas work. @vbatts laid amazing ground work. @mikebrow endless sage advice. @zelinskie w/criticism worth listening to. @jdlolitsky taking it home! (Not sure if these are the right handles)

3 9

Derek McGowan @derekmcgowan · May 5, 2021  
Nearly 7 years ago I started working at Docker and the new secure image distribution project was my first big project. Great to see that work finally become standardized! It's amazing to see how widely used it still is today



1 13 59

Derek McGowan @derekmcgowan · May 5, 2021  
Thank you to the maintainers and the wider OCI community for making this possible and

A vertical collage of social media posts and event photos. The top section shows a tweet from Derek McGowan reposting a tweet from Akihiro Suda (@AkihiroSuda@mastodon.si) about a live demo of nerdctl right now, by @derekmcgowan #KubeCon. Below this is a screenshot of the KubeCon + CloudNativeCon Europe 2021 Virtual Gra page. The middle section features two tweets from Derek McGowan reposting containerd releases. The first is for containerd v1.5.0, released on May 3, 2021, highlighting its status as the sixth major release with stability improvements. The second is for containerd v1.4.4, released on March 4, 2021, noting it includes a fix for CVE-2021-21334. Below these tweets is a photo from the CNCF Community Meetings showing three people on a stage with a large screen displaying the text 'MAKE CLOUD NATIVE UBIQUITOUS'. The bottom section shows a tweet from Derek McGowan reposting a tweet from Akihiro Suda about a blog post on the impact of containerd CVE-2020-15257, and another tweet from Derek McGowan reposting a tweet from Duffie Cooley about a 12pm PST meeting on containerd CVE-2020-15157.

Release containerd 1.2.14 · containerd/containerd

From github.com

23 35

Derek McGowan reposted

containerd

@containerd · Oct 12, 2020

containerd 1.2.14 will be available on October 15th to fix CVE-2020-15157. containerd 1.3 and later are not affected by this CVE, please plan on upgrading to 1.3 or 1.4 immediately. containerd 1.2 will be end of life after October 15th. [github.com/containerd/pro...](#)

30 55

Derek McGowan reposted

containerd

@containerd · Sep 29, 2020

Please review containerd's updated security policy. If you maintain and deliver containerd in production environments, consider getting involved in our security disclosure process. [github.com/containerd/pro...](#)

1 15 28

Derek McGowan reposted

containerd

@containerd · Sep 15, 2020

containerd 1.4.1 has been released! This includes an important fix for v1 shims.

New Release v1.4.1

containerd 1.4.1

Welcome to the v1.4.1 release of containerd!

The first patch release for containerd 1.4 includes a fix for v1 shims hanging...

1 Contributor

Release containerd 1.4.1 · containerd/containerd

From github.com

37 56

Derek McGowan reposted

Darren Shepherd

@ibuildthecloud · Aug 18, 2020

Accept no substitutes, containerd is the most innovative container runtime. Features like starz and proper Windows support really show the strength of containerd's design.

Akihiro Suda

@AkihiroSuda@mastodor · Aug 17, 2020

Wrote a blog about @containerd 1.4 (released today). This release includes a lot of novel features such as "lazy-pulling", SELinux MCS on CRI, cgroup v2, and Windows CRI! [medium.com/hntlabs/contai...](#)

2 18 110

Derek McGowan reposted

Arun Gupta

@arungupta · Aug 18, 2020

Watching Introduction to containerd by @derekmcgowan (maintainer and resident expert at @apple) and @estesp (also maintainer and a good friend) at #KubeCon

containerd?)

runtime"

is (Docker, Kubernetes)

over runtimes (journ, Kata, Firecracker, gVisor)

anager

esses

hports

dependencies

d

er approval required to increase scope

ign only scope increase

Highlights

Feb 2019

graduate

Over 250

represent

Supports

multiple

Governed

topic

Derek McGowan and Phil Estes

1 2 22

Derek McGowan reposted

containerd

@containerd · Aug 14, 2020

Join @estesp and @derekmcgowan on Tuesday!

Chris Hein

@christopherhein · Aug 14, 2020

Replying to @christopherhein

Introduction to containerd - @derekmcgowan - [kconceu20.sched.com/event/ZewU/fint...](#)

10 16

Derek McGowan reposted

Chris Hein

@christopherhein · Aug 14, 2020

Replying to @christopherhein

Introduction to containerd - @derekmcgowan -

kconceu20.sched.com

KubeCon + CloudNativeCon Europe 2020: Introducti

View more about this event at KubeCon + CloudNativeCon Europe 2020

1 4 11

Derek McGowan reposted

Chris Hein

@christopherhein · Aug 14, 2020

So exciting to see some of the @Apple fam talking at @KubeCon\_EU next week @JackKleeman @ParishBmore @derekmcgowan @MarcusSorensen6 & myself 🎉🎉🎉

More details about each talk in [...](#)

1 22 58

Derek McGowan reposted

containerd

@containerd · Aug 4, 2020

First release candidate for containerd 1.4.0 is out! Too many good things to include in one tweet, so check it out.



New Release v1.4.0-rc.0

**containerd 1.4.0-rc.0**

Welcome to the v1.4.0-rc.0 release of containerd!  
*This is a pre-release of containerd*

The fifth major release of containerd includes a mix of new features...

1

Contributor

Release containerd 1.4.0-rc.0 - containerd/containerd

From github.com

1 36 63

Derek McGowan reposted

**containerd** @containerd · Jul 23, 2020

"I think containerd's extensibility gives it great strength with its adoption... It is clear that that was not an afterthought, but a design choice that was thoroughly planned and very well executed." Thanks and well said!

Murat Kilic @mkilic · Jul 21, 2020

Here is my new post titled "Implementing a @containerd Plugin for Container Operations using @grpcio " link.medium.com/heM8YXOj8

7 15

Derek McGowan reposted

**containerd** @containerd · Jun 26, 2020

containerd 1.3.5 has been released! This release includes a few bug fixes and makes container cleanup more resilient.

New Release v1.3.5

**containerd 1.3.5**

Welcome to the v1.3.5 release of containerd!

The fifth patch release for containerd 1.3 includes bug fixes related to clean-up of I/O and shim processes...

1

Contributor

Release containerd 1.3.5 - containerd/containerd

From github.com

38 64

Derek McGowan

@derekmcgowan · May 26, 2020

First Rust PR merged! Thanks 🙏

Cloudflare Developers @CloudflareDev · May 26, 2020

wrangler 1.9.2 is here!

fixes a bug with Secrets introduced in 1.9.1

Thanks to our external contributor @derekmcgowan...

Show more

1 5

Derek McGowan reposted

**containerd** @containerd · May 14, 2020

Betas are back! containerd 1.4.0-beta.0 has been released.

New Release v1.4.0-beta.0

**containerd 1.4.0-beta.0**

Welcome to the v1.4.0-beta.0 release of containerd!  
*This is a pre-release of containerd*

The fifth major release of containerd includes a mix of new features...

1

Contributor

Release containerd 1.4.0-beta.0 - containerd/containerd

From github.com

32 60

Derek McGowan reposted

**Michael Crosby** @crosbymichael · Dec 27, 2019

Replying to @ibuildthecloud

Interesting because I have the same views. I'm working on this internally with people like @ehazlett to get a PoC out very soon, polishing things up now, to show a Docker dev refresh for 2020 in the same way we did for @containerd with ops and production.

4 10 56

Derek McGowan reposted

**Jean-Laurent Morlhon** @morlhon · Dec 27, 2019

Since the split, in the new docker we're busy at work modernising the docker dev tooling to match the current & future developer workflow. That's some of the stuff we have in preparation.

Michael Crosby @crosbymichael · Dec 27, 2019

Replying to @ibuildthecloud


Interesting because I have the same views. I'm working on this internally with people like @ehazlett to get a PoC out very soon, polishing things up now, to show a Docker dev refresh for 2020 in the same way we did for @containerd with ops and production.

2 8 25

Derek McGowan reposted

**@chanezon@fosstodon.org** @chanezon · Nov 21, 2019

#KubeCon meeting container friends: it was good to see you all!  
@vbatts@derekmcgowan @bensdoings@justincormack@tiborvass





1 3 33

Derek McGowan reposted

**Brandon Lum** @lumijb · Nov 21, 2019

Finished my #KubeCon with a bang with the containerd mini summit. With the latest updates in 1.3, deep dive on internals, windows k8s demo and panel discussion with @estesp @Random\_Liu @derekmcgowan @mikebrow @AkihiroSuda\_ and Yu-Ju!



2 12

Derek McGowan reposted

**containerd** @containerd · Nov 21, 2019

Join containerd maintainers TODAY at 2:25pm in room 6D for the containerd mini-summit. @estesp @Random\_Liu Yu-Ju Hong @AkihiroSuda\_ @mikebrow @mak\_pav @derekmcgowan will all be there.

10 10

Derek McGowan reposted

**containerd** @containerd · Oct 1, 2019

Planning for 1.4 has begun. While a major theme will be Windows support in CRI, we want to hear from the community about desired features in 1.4 and 1.5. Everyone is welcome to join a community planning session this Thursday at 3pm UTC (8am PST, 11am EST) [docs.google.com/document/d/1PI...](https://docs.google.com/document/d/1PI...)

27 41

Derek McGowan reposted

**Darren Shepherd** @ibuildthecloud · Sep 27, 2019

Replying to @estesp and @containerd

I wish containerd's guts could just be the defacto standard libraries for doing container stuff. It's by far the best container tech out there.

1 5 13

Derek McGowan reposted

**Phil Estes** @estesp · Sep 27, 2019

I'm biased, but IMO this is a don't miss talk for #KubeCon later this fall. @containerd has value as a core container runtime for sure, but the clean API layer and extension points built for easy consumability are a clear bonus for use cases like this one.

**Samuel Karp** (@samuelkarp@social.seattl) @samuel · Sep 18, 2019

Replying to @samuelkarp

This whole capability is possible because of containerd's extensibility: pull logic is implemented outside the main containerd binary and can be replaced. @mak\_pav and I will be talking about containerd extensibility at KubeCon/CloudNativeCon in November. ...

Show more

2 5 20

Derek McGowan reposted

**Phil Estes** @estesp · Sep 26, 2019

Busy day in @containerd land as we cranked out 3 releases in one day covering all supported release branches! The 1.3 major release is our 4th major release line and has a lot of really useful improvements. Check it out!

**containerd** @containerd · Sep 26, 2019

containerd 1.3.0 has been released! This is the fourth major release for containerd, check it out! [github.com/containerd/con...](https://github.com/containerd/containerd)

2 13 49

Derek McGowan reposted

**containerd** @containerd · Sep 26, 2019

containerd 1.3.0 has been released! This is the fourth major release for containerd, check it out!

New Release v1.3.0

**containerd 1.3.0**

Welcome to the v1.3.0 release of containerd!

The fourth major release of containerd comes 11 months after the previous...

1 Contributor

Release containerd 1.3.0 - containerd/containerd

From github.com

46 85

Derek McGowan reposted

**containerd** @containerd · Sep 25, 2019

The last 1.3 rc has been released. We are waiting on one upstream change then 1.3 final



A vertical collage of social media posts and images related to the containerd project. The top section shows a tweet from Derek McGowan about the containerd 1.3.0-rc.3 release, including a GitHub link and a Kubernetes Podcast link. Below this is a screenshot of the Kubernetes Podcast episode 071, featuring an interview with Derek McGowan. The middle section shows a tweet from Derek McGowan about the Kubernetes Podcast episode 071, including a GitHub link and a Kubernetes Podcast link. The bottom section shows a tweet from Derek McGowan about the containerd 1.3.0-beta.0 release, including a GitHub link and a Kubernetes Podcast link. The bottom-most image is a photo of a woman standing in front of a traditional Chinese building.



Su McGowan

1 7



**Derek McGowan** @derekmcgowan · Jun 25, 2019  
@tonistiigi and @AkihiroSuda introducing #buildkit at #KubeCon. Builds OCI.ORG images on @containerd



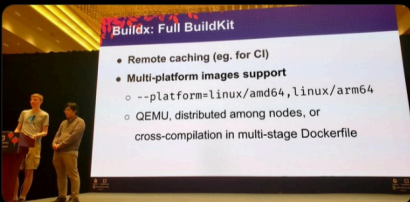
Tónis Tiigi and Akihiro Suda (@AkihiroSuda@mastodon.social)

1 5 17

Show more replies



**Derek McGowan** @derekmcgowan · Jun 25, 2019  
Also use buildx to easily build multiplatform images! #KubeCon

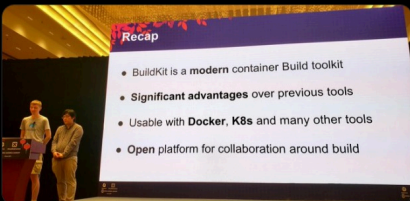


Tónis Tiigi and Akihiro Suda (@AkihiroSuda@mastodon.social)

1 2 11



**Derek McGowan** @derekmcgowan · Jun 25, 2019  
And to recap, just use #buildkit, way better than anything else 🍷



Tónis Tiigi and Akihiro Suda (@AkihiroSuda@mastodon.social)

3 10

Derek McGowan reposted



**@chanezon** @fosstodon.org @chanezon · Jun 25, 2019  
#KubeCon @tonistiigi & @AkihiroSuda the @containerd team is there to support BuildKit!



Derek McGowan and Phil Estes

5 20

Derek McGowan reposted



**Phil Estes** @estesp · Jun 25, 2019  
Had to come halfway around the world to catch up with Patrick! #KubeCon



